

Appln. No. 10/023,071
Ammdt. dated October 27, 2004
Reply to Office Action dated October 6, 2004

IN THE CLAIMS:

Please amend claims 1-7 and 9 and add new claims 10-20 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Currently Amended). A method for enabling a user to interact with an electronic device using speech, the electronic device being capable of interacting with the user in multiple languages, including the method comprising the steps of: establishing a language attribute associated with a language for interaction with the user; causing at least part of the interaction with the user to take place substantially in the associated language;

defining a set of activation commands for activating or controlling the electronic device, the set of activation commands including at least one activation command in each of the languages supported by the electronic device;

receiving speech input from the user;
recognizing at least one voice command in the speech input,
where the voice command is associated with a predetermined first

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~~function of a device; and a distinct second function of establishing the language attribute;~~
~~determining whether the recognized voice command is in the set of activation commands and if so, activating or controlling the electronic device in accordance with the recognized voice command;~~

~~determining the language of the recognized voice command;~~
and

~~setting the a language attribute according to the second function of the recognized command which determines in which language the electronic device interacts with the user based on the language of the recognized voice command such that the recognized voice command has dual functions of causing the activation or control of the electronic device and setting of the language attribute of the electronic device.~~

Claim 2 (Currently Amended). A ~~The method as claimed recited in claim 1, wherein the voice command is one of a set of voice activation commands, the respective second functions of at least two of the activation commands being to establish the language attribute for respective, distinct languages, the method including further comprising the step of enabling recognition of~~

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~~a further~~ an additional set of voice commands in speech input in response to recognizing one of the activation commands.

Claim 3 (Currently Amended). A The method as ~~claimed~~ recited in claim 2, further comprising the step of ~~wherein the~~ method includes selecting the further additional set of voice commands substantially in dependence on the language attribute.

Claim 4 (Currently Amended). A The method as ~~claimed~~ recited in claim 2, wherein at least one of the activation commands includes a word from ~~a language associated with its~~ ~~second function~~ each of the plurality of languages.

Claim 5 (Currently Amended). A The method as ~~claimed~~ recited in claim 4, wherein at least one of the activation commands is a personalized ~~names~~ name in ~~a language associated~~ ~~with its second function~~ each of the plurality of languages.

Claim 6 (Currently Amended). A The method as ~~claimed~~ recited in claim 2, ~~characterized in that~~ wherein at least one of the activation commands is user-definable.

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Claim 7 (Currently Amended). A The method as claimed
recited in claim 3, wherein the electronic device is associated
with a plurality of sets of voice commands, each set being
associated with a language and including voice commands
substantially in the associated language, and wherein the step of
selecting the further additional set of voice commands includes
selecting at least one set whose associated language is related
to a language associated with the language attribute.

Claim 8 (Previously Presented). A computer program product
wherein the program product is operative to cause a processor to
perform the method as claimed in claim 1.

Claim 9 (Currently Amended). An electronic device including
comprising:

control means ~~(12, 13, 14)~~ for initiating individual
functions of the electronic device, for establishing a language
attribute associated with a language for interaction with a user,
and for causing at least part of the interaction with the user to
take place substantially in the associated language;

input means ~~(1)~~ for receiving speech input from the user;
and

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a speech recognizer +4+ connected with said input means recognizing at least one voice command in the speech input, wherein the voice command is associated with a predetermined first function of a device; and a distinct second function of establishing the language attribute;

wherein the control means being operative to set the language attribute according to the second function of the recognized command.

Claim 10 (New). The method as recited in claim 3, wherein the method includes providing a plurality of additional sets of voice commands each in one of the languages supported by the electronic device, the selection of the additional set of voice commands involving selecting the additional set of voice commands in the language associated with the language attribute.

Claim 11 (New). The method as recited in claim 1, wherein the electronic device is a multifunction electronic device, the speech input from the user being recognized by a speech recognizer, further comprising arranging the speech recognizer in the multifunction device.

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Claim 12 (New). The method as recited in claim 1, further comprising the step of enabling the electronic device to provide audio and/or visual feedback to the user in the plurality of languages supported by the electronic device.

Claim 13 (New). The method as recited in claim 12, further comprising the step of setting the electronic device to provide the audio and/or visual feedback in the language of the recognized voice command and associated with the language attribute after the language of the recognized voice command is determined and the language attribute is set.

Claim 14 (New). The method as recited in claim 1, wherein the electronic device includes interacting means for interacting with the user in the plurality of different languages, further comprising the step of setting the language in which the interacting means interacts with the user to the language associated with the language attribute.

Claim 15 (New). The method as recited in claim 14, wherein the interacting means comprise a speech recognizer.

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Claim 16 (New). The method as recited in claim 15, wherein the step of setting the language in which the interacting means interacts with the user comprises loading a defined list of control commands in the language associated with the language attribute into the speech recognizer.

Claim 17 (New). The method as recited in claim 1, wherein after the language attribute of the electronic device is set, the method further comprising the steps of:

receiving additional speech input from the user;
recognizing at least one voice command in the speech input;

and

determining whether the recognized voice command is in a set of control commands which is larger than the set of activation commands and if so, adjusting the operation of the electronic device in accordance with the recognized voice command.

Claim 18 (New). The method as recited in claim 1, further comprising the step of determining which languages are supported by the electronic device and causing the electronic device to interact with the user in the language associated with the language attribute.

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Claim 19 (New). The method as recited in claim 1, further comprising constructing the electronic device to interact with the user based on an established language attribute and establishing the language attribute of the electronic device as the language attribute set based on the language of the recognized voice command.

Claim 20 (New). A method for enabling a user to interact with an electronic device using speech, the electronic device being capable of interacting with the user in multiple languages, the method comprising the steps of:

enabling the electronic device to interact with the user in only a single one of the multiple languages, interaction between the user and the electronic device involving at least one of recognition of speech, audio feedback and video feedback;

defining a set of activation commands for activating or controlling the electronic device, the set of activation commands including at least one activation command in each of the languages supported by the electronic device;

receiving speech input from the user;

recognizing at least one voice command in the speech input;

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determining whether the recognized voice command is in the set of activation commands and if so, activating or controlling the electronic device in accordance with the recognized voice command; and

determining the language of the recognized voice command and setting the electronic device to interact with the user in the language of the recognized voice command such that the recognized voice command has dual functions of causing the activation or control of the electronic device and causing interaction between the electronic device and the user in the recognized language.